

AMENDMENTS TO THE CLAIMS

Claims 1-2 (cancelled)

Claim 3 (currently amended) Method for the inhibition of carbon flow in the glycolytic direction in a plant cell by increasing the intracellular availability of trehalose-6-phosphate by transformation of said plant cell with a vector comprising an antisense gene for trehalose-6-phosphate phosphatase (TPP), which upon expression is able to inhibit functional activity of the endogenous trehalose-6-phosphate phosphatase (TPP) gene.

Claim 4 (cancelled)

Claims 5-6 (withdrawn)

Claim 7 (cancelled)

Claim 8 (withdrawn)

Claims 9-20 (cancelled)

Claim 21-23 (cancelled)

Claims 24-33 (cancelled)

Claim 34 (currently amended) A cloning vector which comprises an antisense gene for [[TPP]] trehalose-6-phosphate phosphatase (TPP), which upon expression is able to prevent inhibit functional activity of the endogenous [[TPP]] trehalose-6-phosphate phosphatase (TPP) gene in a plant cell.

Claim 35 (cancelled)

Claim 36 (currently amended) Plant characterized in that it or one of its ancestors is transformed with a vector comprising ~~the nucleotide sequence coding for~~ an antisense gene ~~[[of]]~~ [[TPP]] for trehalose-6-phosphate phosphatase (TPP), which upon expression is able to inhibit functional activity of the endogenous trehalose-6-phosphate phosphatase (TPP) gene in a cell of said plant, said plant still containing said ~~nucleotide sequence~~ antisense gene.

Claims 37-46 (cancelled)

Claims 46-47 (withdrawn)

Claims 49-98 (cancelled)

Claims 99-101 (withdrawn)

Claim 102 (new) Method for the inhibition of carbon flow in the glycolytic direction in a plant cell by increasing the intracellular availability of trehalose-6-phosphate by transformation of said plant cell with a vector comprising an antisense fragment of a trehalose-6-phosphate phosphatase (TPP) coding region, which upon expression is able to inhibit functional activity of the endogenous trehalose-6-phosphate phosphatase (TPP) gene.

Claim 103 (new) A cloning vector which comprises an antisense fragment of a trehalose-6-phosphate phosphatase (TPP) coding region, which upon expression is able to inhibit functional activity of the endogenous trehalose-6-phosphate phosphatase (TPP) gene in a plant cell.

Claim 104 (new) Plant characterized in that it or one of its ancestors is transformed with a vector comprising an antisense fragment of a trehalose-6-phosphate phosphatase (TPP) coding region, which upon expression is able to inhibit functional activity of the endogenous trehalose-6-phosphate phosphatase (TPP) gene in a cell of said plant, said plant still containing said antisense fragment.